

Title (en)
FRACTURING SYSTEM AND METHOD FOR AN UNDERGROUND FORMATION USING NATURAL GAS AND AN INERT PURGING FLUID

Title (de)
BRUCHSYSTEM UND VERFAHREN FÜR EINE UNTERIRDISCHE FORMATION ANHAND VON ERDGAS UND EINEM INERTEN SPÜLFLUID

Title (fr)
SYSTÈME ET PROCÉDÉ DE FRACTURATION POUR UNE FORMATION SOUTERRAINE UTILISANT DU GAZ NATUREL ET UN FLUIDE DE PURGE INERTE

Publication
EP 2665891 A1 20131127 (EN)

Application
EP 11856275 A 20111003

Priority
• US 201161433441 P 20110117
• CA 2011001114 W 20111003

Abstract (en)
[origin: WO2012097424A1] A method for fracturing a formation in a reservoir using a fracturing fluid mixture comprising natural gas and a base fluid, comprises: determining certain reservoir conditions of the reservoir comprising the formation; selecting at least one desired behaviour of the fracturing fluid mixture during a fracturing operation in the formation under the determined reservoir conditions; determining properties of the fracturing fluid mixture required to achieve the selected at least one behaviour, wherein the determined properties includes a mole fraction of natural gas in the mixture; preparing the fracturing fluid mixture having the determined properties; and injecting the fracturing fluid mixture into the reservoir under the determined reservoir conditions, such that the mixture exhibits the desired behaviour during the fracturing operation.

IPC 8 full level
E21B 43/26 (2006.01)

CPC (source: EA EP US)
C09K 8/62 (2013.01 - EA EP US); **E21B 21/062** (2013.01 - EA EP US); **E21B 43/168** (2013.01 - EA EP US); **E21B 43/2605** (2020.05 - EA EP US); **E21B 43/2607** (2020.05 - EA EP US); **E21B 43/267** (2013.01 - EA EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2012097424 A1 20120726; AU 2011356580 A1 20130815; AU 2011356581 A1 20130815; AU 2011356581 B2 20160428; AU 2011356582 A1 20130815; AU 2011356582 B2 20160428; CA 2824169 A1 20120726; CA 2824169 C 20150210; CA 2824181 A1 20120726; CA 2824181 C 20150217; CA 2824206 A1 20120726; CA 2824206 C 20150217; CN 103429845 A 20131204; CN 103429845 B 20161228; CN 103429846 A 20131204; CN 103429846 B 20160210; CN 103443397 A 20131211; CN 103443397 B 20160817; EA 024378 B1 20160930; EA 024675 B1 20161031; EA 030629 B1 20180928; EA 032858 B1 20190731; EA 201370157 A1 20131230; EA 201370158 A1 20140228; EA 201370160 A1 20140530; EA 201592153 A1 20160331; EP 2665890 A1 20131127; EP 2665890 A4 20180418; EP 2665890 B1 20190605; EP 2665891 A1 20131127; EP 2665891 A4 20180117; EP 2665892 A1 20131127; EP 2665892 A4 20180418; EP 2665892 B1 20190612; MX 2013008324 A 20141121; MX 2013008325 A 20140206; MX 2013008326 A 20140227; MX 339167 B 20160509; MX 348151 B 20170531; US 2013341010 A1 20131226; US 2014000899 A1 20140102; US 2014008074 A1 20140109; US 2016084058 A1 20160324; US 8991499 B2 20150331; US 9033035 B2 20150519; US 9181789 B2 20151110; US 9796910 B2 20171024; WO 2012097425 A1 20120726; WO 2012097426 A1 20120726

DOCDB simple family (application)
CA 2011001112 W 20111003; AU 2011356580 A 20111003; AU 2011356581 A 20111003; AU 2011356582 A 20111003; CA 2011001113 W 20111003; CA 2011001114 W 20111003; CA 2824169 A 20111003; CA 2824181 A 20111003; CA 2824206 A 20111003; CN 201180069366 A 20111003; CN 201180069373 A 20111003; CN 201180069383 A 20111003; EA 201370157 A 20111003; EA 201370158 A 20111003; EA 201370160 A 20111003; EA 201592153 A 20111003; EP 11856006 A 20111003; EP 11856275 A 20111003; EP 11856360 A 20111003; MX 2013008324 A 20111003; MX 2013008325 A 20111003; MX 2013008326 A 20111003; US 201113979808 A 20111003; US 201113979816 A 20111003; US 201113979823 A 20111003; US 201514862611 A 20150923